

Date			
	Thursday		
UTC-3 (Brazil Standard Time)	Topazio Room	Diamante Room	Rubi Room
7:00-9:00 a.m.	-	Virtual Session 3: Millimeter-Wave Channel and Waveform for Integrated Sensing and Communication and Drones	Virtual Session 4: HAPS and Satellite-Terrestrial Spectrum Coexistence in 6G NTN
8:50-9:10 a.m.	Registration/Coffee Reception		
9:10-10:10 a.m.	Plenary Session 2	-	-
10:10-10:30 a.m.	Poster Session Coffee Break Rooms Conferência 1, 2 and Auditório 1		
10:30 a.m.-12:10 p.m.	Session 10: Interactive Applications, Personalization, and Platform Architectures for TV 3.0	Session 11: Audio, Video Coding, and Antenna Technologies for TV 3.0	Session 12: ITCN, GSL and 6G Broadcasting
12:10-2:00 p.m.	Lunch Le Monde Restaurant		
2:00-3:40 p.m.	Session 13: MIMO, RIS, and ISAC	Session 14: Video/Speech Coding and 3D Video Conference	Young Professionals Workshop
3:40-4:00 p.m.	Poster Session Coffee Break Rooms Conferência 1, 2 and Auditório 1		
4:00-5:00 p.m.	Session 16: Microservice, Data Monitoring	Session 15: Advanced PHY Techniques, MIMO Transmission, and Coverage Planning for TV 3.0 and ATSC 3.0	Humanitarian Technologies Workshop
5:00-7:00 p.m.	FIFA World Cup Match 97	-	-
7:00-10:00 p.m.	Banquet Dinner, BMSB 2026 Technical Program Report, Awards Ceremony, and IEEE BMSB 2027 Host Announcement Sal e Brasa Churrascaria (outside the conference hotel)		

Rooms Conferência 1, 2 and Auditório 1		
July 8, 2026		
Thursday		
10:10–10:30 a.m. 3:40–4:00 p.m.		
Chair: Ricardo Rabaça		
Poster Session		
Paper ID	Title	Authors
72	Query-Driven Scene Selection for Personalized Video Summarization Using Multimodal Semantic Descriptions	Hyun-Jeong Yim, Sungjun Ahn, Jung Sun Um and Jae Hyun Seo
11	Microservice Fault Diagnosis Algorithm Based on Spatiotemporal Fusion and Reconstruction	Zijiao Tang
24	Edge Task Processing and Transmission Method for Multimedia Applications	Ye Liu, Ding Ding, Zhijun Yu, Fengge Yu, Zhipeng Gao and Yang Yang
47	A Routing Method based on the enhanced DDPG Algorithm in the Heterogeneous Power Communication Networks	Di Liu, Lei Liu, Wenjie Ma, Hui Liu and Mengjie Yang
48	TD3-Based Mechanism Research on Stable Handover in Air–Ground Integrated Power Communication Networks	Yanru Wang, Wenjie Ma, Jian Meng, Mengjie Yang and Hui Liu
138	IoT Signal Classification using Supervised Machine Learning Techniques	Daniel Genova, Ivan Casella, Carlos Capovilla, Fadi Jerji and Cristiano Akamine
49	Exploiting Non-Gaussian Interference in MIMO-MMSE: GMM-Aware Geometric Shaping	Tianze Jie, Yin Xu, Haoyang Li, Dazhi He and Wenjun Zhang
44	ITCN Full-Duplex Loopback Signal Cancellation Hardware Prototype	Ning Yang, Jon Montalban, Eneko Iradier, Pablo Angueira, Yin Xu, Dazhi He, Wenjun Zhang and Yiyang Wu
148	Microservices-Enabled Secure Multimedia Data Streaming for Distributed Edge IoT Networks using Adversarial Neural Cryptography	Desheng Chen, Zhengjian Li, Jiabao Wen, Jingyi He, Shuai Xiao and Jiachen Yang

Diamante Room		
July 9, 2026		
Thursday		
7:00-9:00 a.m.		
UTC-3 (Brazil Standard Time)		
Virtual Session 3: Millimeter-Wave Channel and Waveform for Integrated Sensing and Communication and Drones		
Chair: Gustavo de Melo Valeira		
Paper ID	Title	Authors
40	Channel Characteristics and Evaluation Methods for Millimeter Wave Cellular Wireless Communication Systems	Xi Meng, Yuqing Chai and Hongming Zhang
41	Performance Evaluation Methods for 6G Millimeter-Wave Cellular Wireless Communication Systems	Xi Meng, Xiaoyong Liu, Pengpeng Li and Yuqing Chai
43	Compatibility Analysis of 5G mmWave ISAC Services with Existing Services in 25.5-26.3GHz Band	Jie Wang and Lei Liu
67	A Multi-Station Collaborative Interference Avoidance Method for Millimeter-Wave Systems in Low-Altitude Scenarios	Lei Liu, Guanghui Zhang and Bingxin Wang
136	Exploration of Key Technologies for Millimeter-Wave Communication and Sensing Networking	Hua Zhang
145	Research and application of integrated sensing technology for water-air integration	Pu Song
150	Performance Evaluation on Waveforms Design for 6G Wireless Network	Sen Xu, Guanghui Zhang, Shangkun Xiong, Jincan Xin, Xianda Liu and Hua Xu
75	Collaborative Emergency Supplies Delivery by Using Modular UAVs	Jixu Liu, Junqi Wu, Jian Xiong and Bo Liu

Rubi Room		
July 9, 2026		
Thursday		
7:00-9:00 a.m.		
UTC-3 (Brazil Standard Time)		
Virtual Session 4: HAPS and Satellite-Terrestrial Spectrum Coexistence in 6G NTN		
Chair: Pollyana Notargiacomo		
Paper ID	Title	Authors
50	Federated Learning for Distributed Interference Coordination in Heterogeneous 6G NTN	Lin Han, Zhao Zou and Yuchen Wang
76	Coexistence Analysis and Spectrum Sharing Technology for Integrated Satellite-Terrestrial Systems	Dong Zhao, Yankun Li, Huxiao Yang, Yiyang Niu, Zhengxuan Li and Qingyue Peng
80	Millimeter-Wave Resource Allocation and Interference Coordination for Swarm-HAPS Enabled 6G NTN	Dan Tu, Lei Liu and Jie Wang
111	Energy-Efficient Resource Management for Green HAPS-based 6G NTN in Millimeter-Wave Bands	Yuetian Zhou
139	Near-Field ISAC for HAPS-equipped Extremely Large-Scale MIMO in 6G: Modeling and Beamforming	Bowei Rang, Guanghui Zhang, Sen Xu, Xiaohang Xu, Henghua Lin and Xiaona Gao
38	Compatibility Analysis of HBS with Cross-Border Systems in Sub-2.7GHz Bands	Yuqing Chai and Gang Luo
42	Sharing and Compatibility Analysis Between Mobile Satellite Service and IMT Systems in the 2 GHz Frequency Band	Jie Wang
68	A Cooperative Beamforming Optimization Method for HAPS Based on Dynamic Sensing and Intelligent Prediction	Yang Yang and Guanghui Zhang

Topazio Room		
July 9, 2026		
Thursday		
10:30 a.m.–12:10 p.m.		
Session 10: Interactive Applications, Personalization, and Platform Architectures for TV 3.0		
Chair: Luciano Neves and Sung-Ik Park		
Paper ID	Title	Authors
12	Design Challenges on tv 3.0: Multiview, Interactivity and Personalization	João Barros, Eduardo Oliveira and Marcos Souza Filho
36	A Missing Persons Alert System for DTV+	Flávio Miranda de Farias, Alice Lima Soares, Marcos V. Mesquita de Moraes and Débora C. Muchaluat-Saade
110	Metadata-driven Architecture of the TV 3.0 Application-oriented Platform	Marcelo Moreno, Li-Chang Sousa and Carlos Soares Neto
122	Hybrid Broadcast-P2P Trustless Architecture for Decentralized Smart TV Networks on Blockchains	Rafael Cavalcanti, Guido Filho, Rostand Costa and Daniel Oliveira
123	TV 3.0 transmission and reception test environment: LabStation and LabApp	Derzu Omaia, Yuri Fernandes, Giuliano Maia, Kellyanne Alves, Claudio Schneider, Richelieu Costa, Thayná Rodrigues, Stênio Ellison, Luiz Eduardo Leite and Guido Souza Filho

Diamante Room		
July 9, 2026		
Thursday		
10:30 a.m.–12:10 p.m.		
Session 11: Audio, Video Coding, and Antenna Technologies for TV 3.0		
Chair: George Maranhão and Giuseppe Araniti		
Paper ID	Title	Authors
115	On the Evaluation of VVC+LCEVC for DTV+	Pedro Garcia Freitas, Eduardo Peixoto, André Henrique Costa, Alan Stein, Simone Ferrara, Lorenzo Ciccarelli and Fabio Murra
152	Internal Broadband VHF–UHF Antenna in Four-Point Star Format with 2×2 Crossed Dipoles for MIMO Reception on TV 3.0	Edson Tafeli Carneiro dos Santos, Marcelo Bender Perotoni, Ricardo S. Rabaça, Guilherme Chiesa, Yuri Pontes Maciel and Marcos Stefanelli Vieira
91	TV 3.0 Audio System	Adrian Murtaza, Yannik Grewe, Harald Fuchs, Bernd Czelhan and Moritz Fuchs
98	TV 3.0 Sensory Effect Presentation Engine	Rodrigo Sodré, Joel dos Santos and Débora C. Muchaluat-Saade

Rubi Room		
July 9, 2026		
Thursday		
10:30 a.m.–12:10 p.m.		
Session 12: ITCN, GSL and 6G Broadcasting		
Chair: Josemar Cruz and Sungho Jeon		
Paper ID	Title	Authors
26	How to Indicate Inter-Tower Communications Data in ATSC 3.0 Systems	Sungjun Ahn, Bo-mi Lim, Namho Hur and Sung-Ik Park
44	ITCN Full-Duplex Loopback Signal Cancellation Hardware Prototype	Ning Yang, Jon Montalban, Eneko Iradier, Pablo Angueira, Yin Xu, Dazhi He, Wenjun Zhang and Yiyang Wu
96	Single Frequency Network Local Content Insertion (LCI) System Prototyping and Co-channel Interference Tests	Ning Yang, Orlando Landrove, Jon Montalban, Pablo Angueira, Yin Xu, Dazhi He, Wenjun Zhang and Yiyang Wu
112	Low-Complexity and Learning-Based Self-Interference Cancellation for ATSC 3.0	Aitor Salutregi, Iñigo Bilbao, Eneko Iradier, Marta Fernandez, Iñaki Eizmendi and Jon Montalban
147	6G Multicast/Broadcast: Lessons learned from 4G and 5G and the NTN Opportunity	David Gomez-Barquero

Topazio Room		
July 9, 2026		
Thursday		
2:00–3:40 p.m.		
Session 13: MIMO, RIS, and ISAC		
Chair: Ricardo Rabaça and Pablo Angueira Buceta		
Paper ID	Title	Authors
53	Conjugate Beamforming Variants for Multicasting in Cell-Free Massive MIMO Systems	Alejandro de la Fuente, Adrián Espinosa, Jan García-Morales, Felip Riera-Palou and Guillem Femenias
82	Joint Optimization Algorithm for Irregular RIS-Aided THz Communication Systems	Mengliang Li, Yu Peng, Shuai Han, Tianyu Wang and Ziyuan Sha
97	Recovery Beam Framework with Multi-Agent Reinforcement Learning for Enhanced QoE in 5G Multicast MIMO Networks	Mathurin Kayo, Pietro Zema, Chiara Suraci, Silverio Spinella and Giuseppe Araniti
21	A3D-UNet-Sense Anchor-based Joint 3D Scatterer Sensing and Amplitude Extraction in Integrated Sensing and Communication Systems	Jingpeng Qin, Xudong Zhang, Jingbo Tan, Sufang Yang and Jintao Wang

online

Diamante Room		
July 9, 2026		
Thursday		
2:00–3:40 p.m.		
Session 14: Video/Speech Coding and 3D Video Conference		
Chair: Derzu Omaia and Zhuqing Jiang		
Paper ID	Title	Authors
71	Intelligent Video Coding: Learning-Based Paradigms and Standardization Trends	Hongwei Guo, Lei Luo, Yipeng Liu and Ce Zhu
104	FRAME-WISE STREAMING FOR EFFICIENT LEARNED SPEECH COMPRESSION	Yuhan Liu, Jun Xu, Fengxi Zhang, Zhengxue Cheng and Li Song
106	LLMCodec: Adapting Video Codecs for Efficient Weight Compression of Large Language Models	Rui Wang, Yan Zhao, Li Song and Zhengxue Cheng
103	A Real-time Lightweight 3D Video Conferencing System for Multi-user Immersive Interaction	Sujing Li, Jun Xu, Jianglong Li, Bingcong Lu, Zhengxue Cheng and Li Song

Rubi Room
July 9, 2026
Thursday
2:00–3:40 p.m.
Yong Professionals Workshop
Chair: Fadi Jerji and Eneko Iradier

Diamante Room		
July 9, 2026		
Thursday		
4:00–5:00 p.m.		
Session 15: Advanced PHY Techniques, MIMO Transmission, and Coverage Planning for TV 3.0 and ATSC 3.0		
Chair: Cristiano Akamine and David Gomez-Barquero		
Paper ID	Title	Authors
6	ATSC 3.0 MIMO Extension for Brazil's DTV+	Sung-Ik Park, Bomi Lim, Sunhyoung Kwon and Sungjun Ahn
7	ATSC 3.0 End-to-End Latency: Analysis, Measurement, and Optimization for Emergency Alert Delivery	Sung-Ik Park, Sungho Jeon, Seongman Min, Bomi Lim, Sunhyoung Kwon and Sungjun Ahn
59	Mobile Reception of DTV+ in a Metropolitan SFN: Field Trials, Antenna Performance and Coverage Implications	Douglas Paixão, Francisco Peres, Carlos Cosme and Henrique Ribeiro
35	Field Experimental Verification of ATSC 3.0 MIMO Multiplexing Using LDM and TDM	Bo-mi Lim, Han-Hwi Kim, Namho Hur, Jae Hyun Seo and Sung-Ik Park
88	Layer-Specific Es/N0 Coverage Planning for TV 3.0 with LDM Injection Optimization and Monte Carlo Location Variability	Leandro Pires, Celedônio Costa, Alberto Botelho, Paulo Cardoso and Ugo Dias

Topazio Room		
July 9, 2026		
Thursday		
4:00–5:00 p.m.		
Session 16: Microservice, Data Monitoring		
Chair: Gustavo de Melo Valeira and Lei Lou		
Paper ID	Title	Authors
108	Highly Reliable Inspection Trajectory Planning in Low-Altitude Broadband Networks via TD3-RRT*	Jiayin Song, Can Tan, Lixin Zhang, Chaowei Wang and Peng Yu
56	Enhanced Multimodal Microservice Failure Diagnosis Based on Global-Local Contrastive Learning and Similarity-Aware Dynamic Pruning	Kejia Li, Yang Yang, Jun Chen, Jianguo Lan and Xiaocong Ma
3	Novel CEIR-Net for RF-Based Heterogeneous Open-set Unmanned-Aerial-Vehicle Recognition	Xinyue Qiao, Xiao Yan, Qian Wang, Hsiao-Chun Wu, Guannan Liu and Yiyan Wu

Rubi Room		
July 9, 2026		
Thursday		
4:00–5:00 p.m.		
IEEE Humanitarian Technologies Workshop		
Chair: Pollyana Notargiacomo		
Title	Summary	Speaker
Advancing Technology for the Benefit of Humanity	IEEE Humanitarian Technologies (HT) is a consortium of programs and initiatives—supported by a global network of volunteers and technical professionals—working together to apply technology to solve the world's most pressing problems	Morgan Kiani

Sal e Brasa (Brazilian Churrascaria)
Av Cabo Branco, 1830 - Cabo Branco
Zip Code:58045-010 João Pessoa / PB

July 9, 2026

Thursday

7:00–10:00 p.m.

**Banquet Dinner, BMSB 2026 Technical Program Report, Awards Ceremony, and IEEE
BMSB 2027 Host Announcement**

Title	Speaker	Time
Technical Program Report	Débora C. Muchaluat-Saade	8:30 p.m.
Awards Ceremony	Cristiano Akamine Maurizio Murrone Guy Burchard Sung-Ik Park Yiyan Wu Jian Song	8:45 p.m.
IEEE BMSB 2027 Host Announcement	Bo LIU	9:30 p.m.